



PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/628,649
Filing Date	July 28, 2003
First Named Inventor	Besterman et al.
Art Unit	NA
Examiner Name	NA
Attorney Docket Number	MET-011DV (1002/012)

Total Number of Pages in This Submission

ENCLOSURES (Check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC) |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Change of Correspondence Address | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | |
| <input checked="" type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Request for Refund | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application | Remarks | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | * PTO form 1449
* Copies of 15 references
* Postcard | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Wayne A. Keown, Ph.D. (Reg. No. 33,923)
Signature	<i>W. A. Keown</i>
Date	12/22/03

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	<i>Laura Labrier</i>	Date	12/22/03
Signature	<i>Laura Labrier</i>		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Besterman et al.
Serial No.: 10/628,649
Filed: July 28, 2003
Entitled: ACYL PHOSPH(ON)ATE INHIBITORS OF BETA-LACTAMASES
Examiner: NA
Group Art Unit: NA
Attorney Docket No.: MET-011DV (1002/012)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants and their attorney are aware of the following publications and information listed on the attached PTO Form 1449, and in accordance with 37 C.F.R. §1.97 hereby submit these publications for the Examiner's consideration.

Applicants state under 37 C.F.R. §1.97(e)(1) that none of the publications were cited in an International Search Report issued in connection with a counterpart Patent Cooperation Treaty application.

Applicants also state that identifiers C1-C7 were previously cited in the parent case U.S. Patent Application Serial No. 09/582,255 and therefore copies of the references are not enclosed in this submission.

Applicants further state that identifiers C25 and C26 are books which are too voluminous to submit herewith.

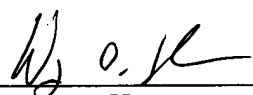


This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to patentability or that the listed documents are prior art. If it should be determined that any of the listed documents constitute "prior art" under United States law, Applicants reserve the right to present to the Office relevant facts and law regarding the appropriate status of such documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits and is therefore submitted as both timely and proper. Therefore, no fees are believed to be due.

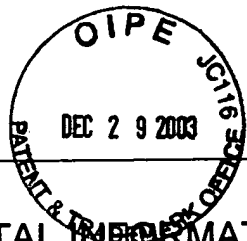
Respectfully submitted,

Date: 12/22/03



Wayne A. Keown
Reg. No. 33,923

Keown & Associates
500 West Cummings Park
Suite 1200
Woburn, MA 01801
781-938-1805 (Telephone)
781-938-4777 (Facsimile)



Subt. Form PTO-1449

**SUPPLEMENTAL INFORMATION
DISCLOSURE IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number

MET-011DV

Application Number

10/628,649

Applicant

Besterman et al.

Filing Date

July 28, 2003

Group Art Unit

NA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	IDENTIFIER	
	C1	Li, N. et al., "Structure-Activity Studies of the Inhibition of Serine Beta-Lactamases by Phosphonate Monoesters", Bioorg. Med. Chem.; 1997; 5(9)1783-1788, 1997
	C2	Laird, R.M. et al., "Mechanism of Acyl Phosphonate Reactions ..", J. Chem. Soc., Perkin Trans. 2(JCPKBH); (10)1434-6, 1973.
	C3	Kazlauskas, R.J. et al., "synthesis of Methoxycarbonyl Phosphate, New Reagent Having...", J. Org. Chem., 50(7)1069-76, 1985.
	C4	Li, Naixin, "Inhibition of Serine B-Lactamases by Acyl Phosphonates: A New Source of Inert ...", J. of the American Chemical Society; 120(18)4264-8, 1998.
	C5	Pratt, R.F., "Salicyloyl Cyclic Phosphate, a Penicillin-Like Inhibitor of B-Lactamases", J. of the Amer. Chem. Soc., 120(13)3004-06, 1998.
	C6	Song, Y. et al., "Benzylpenicillin Methyl Phosphate. A Penicillin Prodrug ...", Bioorg. Med. Chem. Lett.; 4(10)1225-8, 1994.
	C7	Rahil, J. et al., "Phosphonate Monoester Inhibitors of Class A. Beta-Lactamases", Biochem., 275(3)793-795, 1991.
	✓ C8	Cohen, Science, 257:1051-1055, 1992.
	✓ C9	Neu, Science, 257:1064-1073, 1992.
	✓ C10	Coulton et al., Progress in Medicinal Chemistry, 31:297-349, 1994.
	C11	Dudley, Pharmacotherapy, 15:9S-14S, 1995.
	✓ C12	Sutherland, Trends Pharmacol. Sci., 12:227-232, 1991.
	✓ C13	Chantrenne, Compt. Rend. Trav. Lab. Carlsberg Ser. Chim. 26:297, 1948.
	✓ C14	Maracek et al., J. Am. Chem. Soc., 92:917-921, 1970.
	C15	Kluger et al., Can. J. Chem., 74:2395-2400.
	✓ C16	Waley, "The Chemistry of B-Lactamase", Page Ed., Chapman & Hall, London, 198-228, 1992.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy with next communication to Applicant.

